

PRECISION TEMPERING VALVE

Description

When precise water temperature control is critical, Heat-Timer's Tempering Valve is the solution. This valve provides the most accurate water temperature under all conditions, even at very low flows with as little as a 1 PSI pressure drop. And this accuracy can be achieved with the valve installed in any position, vertically, horizontally, or diagonally.

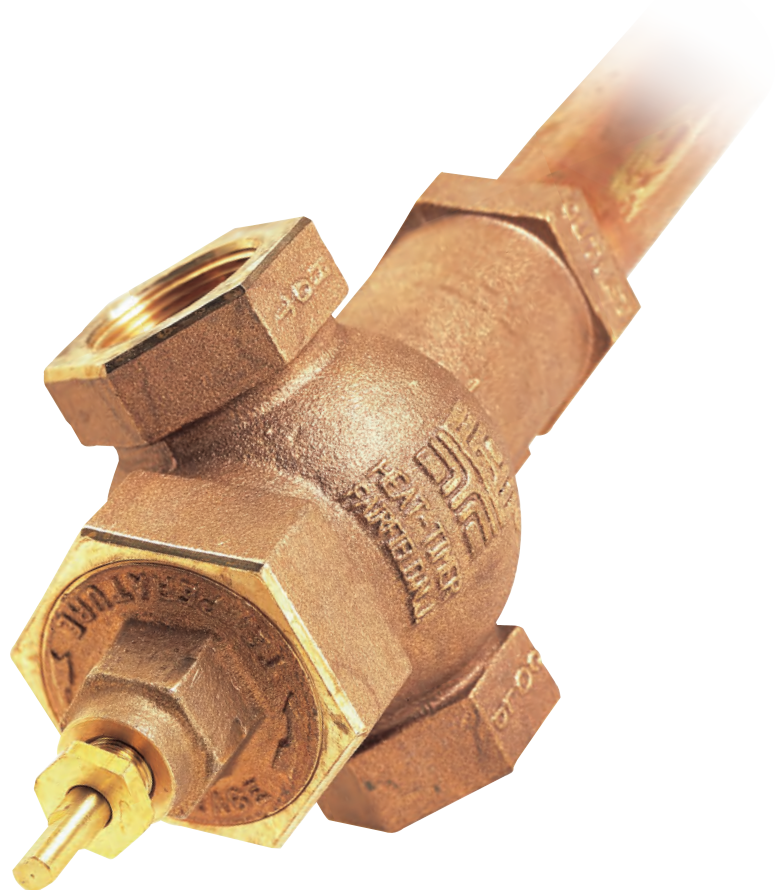
Heat-Timer's Tempering Valve is ideal for any application where domestic hot water must be controlled at all times and under all conditions. Typical uses include:

- Hospitals, nursing homes, and other institutional facilities
- Apartment buildings and condominiums
- Hotels, motels, and other lodging establishments

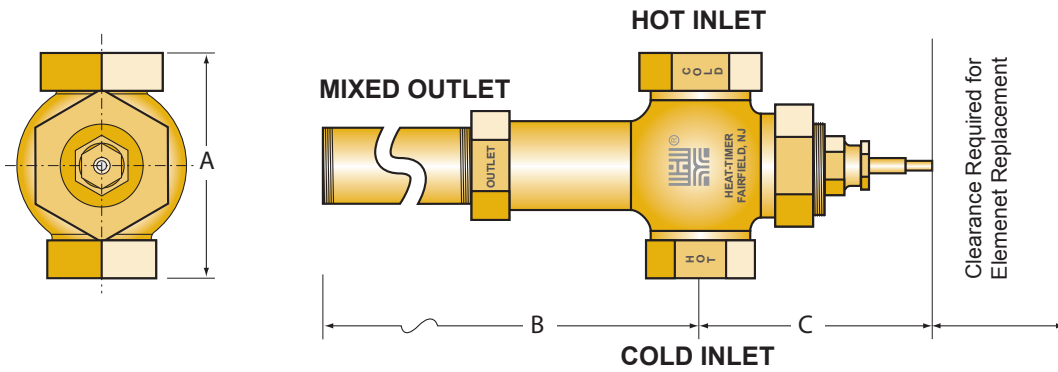
Precision Tempering Valves provide the highest level of temperature control for Domestic Hot Water applications

The valve's unique design is deceptively simple. An internal thermostatic element mechanically adjusts the amount of cold and hot water entering the valve so the desired outlet water temperature is maintained. This is done automatically and virtually instantaneously, without any electronic components and without restrictive piping and pressure drop requirements. This is possible because the valve includes an extra-long thermostat whose large heat-transfer surface enables consistent output accuracy, even under very low flow conditions.

The Tempering Valve also offers superior reliability. The valves are cast of heavy-duty bronze and machined by state-of-the-art equipment to exact tolerances. With no electronic and few moving components, the valves will provide years of reliable service. And, if internal parts do eventually wear out, the modular design enables them to be easily field replaceable, more than doubling the effective valve life compared to competitors.



TEMPERING VALVES SUBMITTAL SHEET



Pressure Drop Flow Chart/Pressure Loss (P.S.I.)

Valve Size	1 p.s.i.	2 p.s.i.	5 p.s.i.	10 p.s.i.	15 p.s.i.	20 p.s.i.
1/2"	4	6	9	14	17	19
3/4"	5	7	12	16	19	22
1"	7	9	15	20	24	29
1 1/4"	12	17	27	38	44	52
1 1/2"	14	19	29	41	48	57
2"	20	31	65	91	110	130
2 1/2"	51	70	115	170	190	226
3"	59	78	131	183	209	251
4"	92	135	217	296	373	405

Gallons Per Minute

For Safety Applications See Heat-Timer Control System Model #926641-00 (TMC Temperature Monitoring Control)

The Heat-Timer Tempering valve is a primary tempering valve and is not designed or recommended to be used as a "Failsafe or anti-scald" valve.

Specifications & Dimensions

Valve Size	Part No.	Dimensions			Clearance For Element Replacement	Standard Pipe Tap		
		A	B	C		Mixed Outlet	Hot Inlet	Cold Inlet
1/2"	910520-00	4 1/2"	8"	4 1/2"	7"	1/2"	1/2"	1/2"
3/4"	910521-00	4 1/2"	8"	4 1/2"	7"	3/4"	3/4"	3/4"
1"	910522-00	4 1/2"	11 1/4"	4 1/2"	12"	1"	1"	1"
1 1/4"	910523-00	4 3/4"	19"	5"	19"	1 1/4"	1 1/4"	1"
1 1/2"	910524-00	5 1/2"	23"	5"	24"	1 1/2"	1 1/2"	1 1/4"
2"	910525-00	6 3/8"	25"	6"	24"	2"	2"	1 1/2"
2 1/2"	910526-00	7 1/2"	27 3/4"	6"	28"	2 1/2"	2 1/2"	2"
3"	910527-00	9"	29 1/8"	6 1/2"	28"	3"	3"	2 1/2"
4"	910528-00	10 1/4"	31"	7"	28"	4"	4"	4"

ENG. _____ GPM _____

JOB # _____ ΔP _____

JOB ADDRESS _____ HEAT-TIMER® TEMPERING VALVE
 _____ SIZE _____
 _____ PART# _____

Heat-Timer Tempering Valve

- Can be sized with as little as 1 P.S.I. Drop.
- Only one Heat-Timer Tempering Valve is required to maintain accuracy at high and low flows.
- Replaceable internal bore.
- Standard outlet temperature range: 100°F - 180°F
- The Tempering Valve can be installed in any position.
- It is not necessary to trap the valve below the water line of the hot water supply source.
- Though the Heat-Timer Tempering Valve can be installed in any location, it is imperative that the installation guidelines and application diagrams are followed.